

Medical Microbiology

BIOL 4380

3 credit hours

Spring 2017

LECTURE 11:00-11:50, MWF, LEE DRAIN BLD, RM 213, CRN 21385

Course Instructor: Aaron Lynne, Ph.D.
Department of Biological Sciences
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Office Hours: MWF 10:00-11:00 or by appointment (best)
Email is the surest way to reach me to set an appointment

Course Description

This course will deal with the etiology, pathogenesis, disease manifestations, diagnosis and epidemiology of infectious disease. Primarily we will focus on bacteria, and some viruses. We will discuss how and why some bacteria/viruses cause disease as well as the host response and resistance to disease.

Course Objectives:

1. Learn the fundamental principles of infectious disease.
2. Develop the ability to apply these principles to certain clinical case scenarios.
3. Demonstrate knowledge of the pathogenesis of major infectious diseases, including their causative agents, epidemiology, and virulence mechanisms.
4. Have practice in developing differential diagnoses for major infectious diseases.

Required Course Texts

Medical Microbiology, 8th Ed., Murray, et al., ELSEVIER. ISBN: 978-0-7234-3601-0

Prerequisites

A grade of C or better in BIO 3470.

Course Evaluation

Four exams of 100 points each will be given. Each will contribute equally to the final grade.

Graduate students who are taking this course to count toward their graduate degree are required to write a separate report due at the end of the semester. The report is worth 50 points. The report will be a review of current literature pertaining to a medically relevant topic of the student's choice. The student must come up with their own topic and have it approved by the

instructor by the 3rd week of class. Upon approval of topic, guidelines will then be provided to the student that will detail how the report should be written. The report is due at the time of the final. Graduate students are encouraged to speak with the instructor about difficulties in choosing a topic.

No grades are dropped or curved. There is no extra credit. Course grade is the typical breakdown of A (100-90%), B (89-80%), C (79-70%), D (69-60%), or F (59% or below).

Attendance and Expectations

As a University faculty member, I will provide my knowledge and expertise and try to give a supportive educational environment. As University students, I expect you to behave professionally (cell phones off in class, prompt attendance, respect to other students, etc). Exam material is primarily from lectures and in-class discussions, thus if you miss class you will suffer. Lecture attendance is expected and important. **If you are unable to come to class due to illness or unexpected circumstances, it is your responsibility to obtain the class notes.** You may contact me in my office if you have specific questions about a given lecture; however, I cannot repeat lectures for students who have missed them. If you miss an exam or quiz without notifying me in advance I do not provide a makeup. If you do notify me in advance (at least 24 hrs) and provide verification, and I accept your absence (official University activity or medical), then I reserve the right to give oral exams for makeup. I want you to learn and enjoy this course, however, that decision is up to you. The more you put in, the more you get out.

Academic Dishonesty

You may find that your performance in this class will benefit from discussions with your classmates and from working in small, motivated study groups. I encourage you to work with others to help clarify concepts and understand the class material. However, on exams and during homework assignments, you must rely on your **own** reasoning, your **own** memory, and your **own** answers. Cheating is a violation of the Honor Code and will not be tolerated. Regulations and responsibilities put forth in the *Student Guidelines 2010-2012(p.32)* and in the *Faculty Handbook* will be followed in the event of academic dishonesty.

Student Absences on Religious Holy Days

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student desiring to absent himself/herself from a scheduled class in order to observe a religious holy day(s) must present to their instructor(s) a written statement concerning the religious holy day(s). This request must be made in the **first fifteen days of the semester** in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

Students with Disabilities Policy

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should visit with the Office of Services for Students with Disabilities located in the Counseling Center. NOTE: no accommodation can be made until you register with the Counseling Center.

Course Schedule

The course schedule will be on Blackboard, updated frequently. The material listed on a date is the subject covered during that class period. Read the assigned material pertaining to class discussion **before** the class. Note outlines will be posted on blackboard for each section that will be covered.

Exam Schedule

Exam 1 – Feb 14

Exam 2 –Mar 7

Exam 3 – April 11

Final Exam – Final's Week